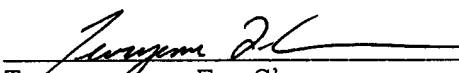


C3 29. (New) A system for producing hydrogen gas comprising means for contacting a mixed gas comprising dimethyl ether and water vapor with a first catalyst and a second catalyst comprising copper and two members selected from the group consisting of nickel, zinc, manganese, chromium, tin, cerium, lanthanum and aluminum, in a form of an oxide, as active components.

## REMARKS

The claims have been amended in order to more particularly point out and distinctly claim the subject matter which Applicants regard as the invention. No new matter has been added. Newly presented Claim 29 is directed to a preferred embodiment of the present invention. Support for Claim 29 can be found on originally presented specification page 6, lines 15-19, and Examples 9-14. No new matter has been added. Favorable consideration is respectfully solicited.

Respectfully submitted,

  
Terryence F. Chapman

TFC/smd

FLYNN, THIEL, BOUTELL	Dale H. Thiel	Reg. No. 24 323
& TANIS, P.C.	David G. Boutell	Reg. No. 25 072
2026 Rambling Road	Ronald J. Tanis	Reg. No. 22 724
Kalamazoo, MI 49008-1699	Terryence F. Chapman	Reg. No. 32 549
Phone: (269) 381-1156	Mark L. Maki	Reg. No. 36 589
Fax: (269) 381-5465	David S. Goldenberg	Reg. No. 31 257
	Sidney B. Williams, Jr.	Reg. No. 24 949
	Liane L. Churney	Reg. No. 40 694
	Brian R. Tumm	Reg. No. 36 328
	Tricia R. Cobb	Reg. No. 44 621

Encl: Marked-Up Amended Claims 20 and 24  
Postal Card

136.0112

20. (~~New~~Amended) A system for producing a synthesis gas comprising means for contacting a mixed gas comprising dimethyl ether and one of water vapor and carbon dioxide gas with a first catalyst and a second catalyst comprising palladium, iridium, platinum or rhodium as an active component.

24. (~~New~~Amended) A system for producing hydrogen gas comprising means for contacting a mixed gas comprising dimethyl ether and carbon dioxide gas with a first catalyst and a second catalyst comprising copper, iron, cobalt, palladium, iridium, platinum, rhodium or nickel, in a form of an oxide or sulfide, as an active component.

RECEIVED

OCT 03 2002

TC 1700

